Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-02-03-93

Date: 29/11/2019

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : EE(Project)Ynk Zone/WO/66/2019-20

: 25-11-19

: Drain SideWall Concrete

Size : 150X150X150 mm

Age : M20 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 29/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
SideWall Concrete	M20	22/11/2019	29/11/2019	151.10 X 151.56 X 150.28	22902	**8.982**	417.6	18.2	18.3
SideWall Concrete	M20	22/11/2019	29/11/2019	149.86 X 150.46 X 150.98	22548	**8.699**	413.4	18.3	
SideWall Concrete	M20	22/11/2019	29/11/2019	149.45 X 149.69 X 150.24	22370	**8.679**	408.6	18.3	

Asst. Executive Engineer / Project Engineer / Verified by / Checked by

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-03-93** **Date: 20/12/2019**

: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

's Reference : EE(Project)Ynk Zone/WO/66/2019-20

Receipt : 25-11-19

ID : Drain SideWall Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 20/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	151.68 X 149.40 X 150.25	22661	**8.944**	531.1	23.4	23.2
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	150.42 X 150.15 X 150.50	22585	**8.448**	517.8	22.9	
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	149.30 X 149.69 X 151.99	22348	**8.850**	516.2	23.1	

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Authorized Signatory
Quality Manager

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9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-02-03-93 **Date: 29/11/2019**

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: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : EE(Project)Ynk Zone/WO/66/2019-20

Receipt : 25-11-19

ID : Drain SideWall Concrete

Type /Size : 150X150X150 mm

Grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 29/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	22/11/2019	29/11/2019	150.51 X 151.28 X 149.16	22770	**8.982**	430.4	18.9	18.6
Drain SideWall Concrete	M20	22/11/2019	29/11/2019	149.26 X 150.92 X 150.27	22527	**8.699**	406.3	18.0	
Drain SideWall Concrete	M20	22/11/2019	29/11/2019	151.82 X 149.56 X 150.01	22706	**8.679**	427.2	18.8	

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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: Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : EE(Project)Ynk Zone/WO/66/2019-20

Receipt : 25-11-19

ID : Drain SideWall Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 20/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	150.93 X 150.29 X 150.84	22683	**8.944**	535.0	23.6	23.3
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	149.29 X 149.82 X 151.50	22367	**8.448**	507.5	22.7	
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	150.19 X 149.01 X 151.71	22379	**8.850**	529.5	23.7	

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-02-03-93** **Date: 29/11/2019**
ume	:	Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
r's Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
Receipt	:	25-11-19
ID	:	Drain SideWall Concrete
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 7 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	29/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	22/11/2019	29/11/2019	149.68 X 151.57 X 149.04	22687	**8.982**	411.0	18.1	18.4
Drain SideWall Concrete	M20	22/11/2019	29/11/2019	151.03 X 151.43 X 151.29	22871	**8.699**	414.2	18.1	
Drain SideWall Concrete	M20	22/11/2019	29/11/2019	151.48 X 150.36 X 151.78	22776	**8.679**	431.6	18.9	

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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	:	**CP-2020-02-03-93** **Date: 20/12/2019**
Name	:	Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Owner's Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
Date of Receipt	:	25-11-19
Member ID	:	Drain SideWall Concrete
Type /Size	:	150X150X150 mm
Mix grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of Test	:	20/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	151.30 X 150.55 X 149.97	22777	**8.944**	535.9	23.5	23.2
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	150.98 X 151.15 X 150.67	22821	**8.448**	513.7	22.5	
Drain SideWall Concrete	M20	22/11/2019	20/12/2019	150.25 X 151.40 X 149.96	22748	**8.850**	536.6	23.6	

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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: CP-2020-02-03-93

Date: 03/12/2019

Name : Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

er's Reference : EE(Project)Ynk Zone/WO/66/2019-20

Receipt : 28-11-19

ner ID : Culvert Deck Slab Concrete

e Type /Size : 150X150X150 mm

Grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	149.27 X 150.43 X 149.62	22454	**8.982**	419.9	18.7	18.6
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	151.78 X 150.37 X 150.63	22823	**8.699**	427.3	18.7	
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	151.52 X 149.04 X 150.19	22582	**8.679**	412.2	18.3	

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-02-03-93** **Date: 24/12/2019**
Name	:	Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
ner's Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
Receipt	:	28-11-19
ner ID	:	Culvert Deck Slab Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	149.40 X 149.46 X 151.52	22330	**8.944**	525.2	23.5	23.4
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	149.81 X 150.16 X 151.79	22495	**8.448**	517.1	23.0	
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	151.38 X 150.63 X 149.49	22802	**8.850**	538.2	23.6	

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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er's Reference : EE(Project)Ynk Zone/WO/66/2019-20

Receipt : 28-11-19

er ID : Culvert Deck Slab Concrete

e Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	150.40 X 151.26 X 149.88	22750	**8.982**	413.0	18.2	18.1
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	151.64 X 151.30 X 149.42	22943	**8.699**	413.6	18.0	
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	149.97 X 151.98 X 150.15	22792	**8.679**	412.1	18.1	

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
f Receipt	:	28-11-19
mer ID	:	Culvert Deck Slab Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	24/12/2019

Date: 24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	149.25 X 149.39 X 150.90	22297	8.944	516.2	23.1	23.1
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	150.95 X 151.47 X 151.80	22865	8.448	515.0	22.5	
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	151.81 X 149.44 X 150.53	22687	8.850	535.3	23.6	

Executive Engineer
Project Division
Yelahanka Zone
BANGALORE

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Date: 03/12/2019

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	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
f Receipt	:	28-11-19
mer ID	:	Culvert Deck Slab Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	150.14 X 150.13 X 151.78	22540	**8.982**	422.9	18.8	18.7
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	151.04 X 150.19 X 150.55	22685	**8.699**	426.1	18.8	
Culvert Deck Slab Concrete	M20	26/11/2019	03/12/2019	149.40 X 151.08 X 149.72	22571	**8.679**	418.8	18.6	

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ID : **CP-2020-02-03-93** **Date: 24/12/2019**

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ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

mmer's Reference : EE(Project)Ynk Zone/WO/66/2019-20

e of Receipt : 28-11-19

mmer ID : Culvert Deck Slab Concrete

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 28 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	149.57 X 149.68 X 150.50	22389	**8.944**	529.6	23.7	23.3
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	150.29 X 151.11 X 149.11	22710	**8.448**	506.2	22.3	
Culvert Deck Slab Concrete	M20	26/11/2019	24/12/2019	149.96 X 151.02 X 151.40	22647	**8.850**	542.8	24.0	

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro
Sig.....
Date.....
BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2020-02-03-93** **Date: 30-11-19**

Project Name : Improvements CC Roads and Darin and Slabs at Agrahara Layout in Ward No.05 Byatarayanapura Project Sub Division.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer Reference : EE(Project)Ynk Zone/WO/66/2019-20

Date of Receipt : 28-11-19

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 28-11-19

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	819	819	7.4	92.6	95-100
22.4	3276	4095	37.2	62.8	60-80
11.2	320	4415	40.1	59.9	40-60
4.75	2345	6760	61.5	38.5	25-40
2.36	1729	8489	77.2	22.8	15-30
0.6	998	9487	86.2	13.8	8-22
0.075	1510	10997	100.0	0.0	0-5

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2020-02-03-93** **Date: 30-11-19**
Project Name	:	Improvements CC Roads and CC Darins Works at Agrahara Layout in Ward No.05 Byatarayanapura Sub Division
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-19
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	28-11-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.7	74.3
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.8	225.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.7	0.2
5	Aggregate impact value	(B/A)*100	24.6	24.8
6	Aggregate impact value (Mean of two tests)	Pecentage	24.7	

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

MINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

	:	**CP-RW-2020-02-03-93** **Date: 30-11-19**
me	:	Improvements CC Roads and CC Darins Works at Agrahara Layout in Ward No.05 Byatarayanapura Sub Division
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Reference	:	EE(Project)Ynk Zone/WO/66/2019-20
ceipt	:	28-11-19
ix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
	:	28-11-19

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.3%	
Flakiness and Elongation Index for WMM	24.9%	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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End of Report